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# SUPPORTING INFORMATION

# Liquid-Liquid Equilibrium and Physical Properties of Aqueous Mixtures of Poly (Ethylene Glycol) 3000 with Tri-Potassium Citrate at Different pH: Experiment, Correlation and Thermodynamic Modeling

**Mahnam Ketabi[†], Mohsen Pirdashti[†,*], and Poorya Mobalegholeslam[‡]**

[†]*Chemical Engineering Department, Faculty of Engineering, Shomal University, PO Box 731, Amol, Mazandaran, Iran.*
[*]*E-mail: pirdashti@yahoo.com*
[‡]*Young Researchers and Elite Club, Babol branch, Islamic Azad University, Babol, Iran.*
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***Table* S1.** Density, $\rho$, and Refractive Index, $n_D$, for the binary and ternary of PEG 3000 (p) + tri-potassium citrate (s) + water system at 298.15 K[a] and 0.1 MPa[b] at various mass fractions of polymer, $w_p$ and salt, $w_s$

| $w_p^c$ | $w_s^c$ | $\frac{\rho(\pm 0.0001)}{kg \cdot m^{-3}}$ | $n_D$ (±0.0001) |
|---|---|---|---|
| 0.00 | 0.00 | 0.9970 | 1.3327 |
| 0.05 | 0.00 | 1.0057 | 1.3394 |
| 0.10 | 0.00 | 1.0120 | 1.3458 |
| 0.20 | 0.00 | 1.0297 | 1.3599 |
| 0.30 | 0.00 | 1.0475 | 1.3743 |
| 0.00 | 0.02 | 1.0097 | 1.3357 |
| 0.00 | 0.06 | 1.0349 | 1.3413 |
| 0.00 | 0.10 | 1.0603 | 1.3470 |
| 0.00 | 0.20 | 1.1278 | 1.3615 |
| 0.00 | 0.30 | 1.1999 | 1.3760 |
| 0.05 | 0.02 | 1.0177 | 1.3416 |
| 0.07 | 0.02 | 1.0209 | 1.3444 |
| 0.1 | 0.02 | 1.0259 | 1.3487 |
| 0.15 | 0.02 | 1.0343 | 1.3559 |
| 0.05 | 0.05 | 1.0364 | 1.3468 |
| 0.10 | 0.05 | 1.0445 | 1.3539 |
| 0.15 | 0.05 | 1.0686 | 1.3609 |
| 0.05 | 0.10 | 1.0683 | 1.3540 |
| 0.10 | 0.10 | 1.0780 | 1.3612 |
| 0.15 | 0.10 | 1.0680 | 1.3683 |
| 0.05 | 0.15 | 1.1012 | 1.3615 |
| 0.08 | 0.15 | 1.1081 | 1.3658 |

[a]298.15 ± 0.05 K, [b]100 ± 0.05 kPa, [c]%mass ± 0.001